Index of Claims

| Application | IA |
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|             |    |

10/043,860

Examiner

DuyVu n Deo

LIU ET AL.

Art Unit

لاماس مستدر ما

1765

√ Rejected Allowed

(Through numeral) Cancelled Restricted

Non-Elected N ŧ Interference

Appeal o Objected

|            |          |               |          |  |              |  |   |              |  |              |                 |          |          |                    |              |          |          |                | [        | <u> </u> |          | Date     |                 |  |          |          |              |              |          |          |  |                |               |               |
|------------|----------|---------------|----------|--|--------------|--|---|--------------|--|--------------|-----------------|----------|----------|--------------------|--------------|----------|----------|----------------|----------|----------|----------|----------|-----------------|--|----------|----------|--------------|--------------|----------|----------|--|----------------|---------------|---------------|
| Claim Date |          |               |          |  |              | _  |   | Cla          | Claim  |              |                 | Date     |          |                    |              |          |          |                |          |          | im_      | -        | $\neg$          | Ť  | ౼        | 1        | _            |              | _        | <u> </u> |  |                |               |               |
| Final      | Original | 20            |          |  |              |  |   |              |  |              |                 | Finat    | Original |                    |              |          |          |                |          |          |          |          |                 | Final  | Original |          |              |              |          |          |  |                |               |               |
|            |          | 04            | _        |  | _            |  | _   |              | _  | _            |                 |          |          | Ц                  | _            |          |          | _              | 4        | 4        | 4        | 4        |                 |  | 101      |          | Н            |              |          |          | $\dashv$   | +              | $\dashv$      |               |
|            | 0        | V             |          | _  | _            |  | -   | -+           |  | -            |                 |          | 51       | -                  |              |          |          |                | -+       | +        | +        | $\dashv$ |                 |  | 102      | $\vdash$ | H            | $\vdash$     | +        | $\dashv$ | -  | 十              | 一             | _             |
|            | 1        |               |          |  | _            |  |   |              |  | _            |                 | _        | 52       | $\sqcup$           | - 1          |          | -        | $\dashv$       |          | -        | -        |          |                 |  | 103      | -        | $\vdash$     |              | $\dashv$ | $\dashv$ | ᅱ  | -+             | -             | _             |
|            | 3        | "             |          |  | _            |  |   |              |  |              |                 |          | 53       |                    | -4           |          | -1       |                |          | -        |          |          |                 |  | 104      |          | Н            |              | -        | $\dashv$ |  | $\dashv$       | $\dashv$      | <u> </u>      |
|            | 4        | 11            |          |  | _            |  | <u>:</u>                                      | _            | _  |              | 1               |          | .54      | Ш                  |              |          |          | -              | $\dashv$ | $\dashv$ | +        | $\dashv$ |                 |  | 105      |          | $\vdash$     | $\vdash$     | $\dashv$ | $\dashv$ |  | $\dashv$       | -             |               |
|            | 5        |               |          |  |              |  |   |              |  |              |                 |          | 55       |                    | _            |          | -        | -              | -        | +        | +        | 4        |                 |  | 106      |          |              | $\vdash$     | $\dashv$ | $\dashv$ | -  | $\dashv$       | -1            | _             |
|            | 6        | 1             |          | _  |              |  |   | _            |  |              |                 |          | 56       |                    | $\neg$       |          |          |                | $\dashv$ |          |          | -{       |                 |  | 107      | H        | $\vdash$     |              | $\vdash$ | $\dashv$ | -  | -+             | -             | _             |
|            | 1        | L             |          |  | ٠.           |  |   | _            | _  |              |                 |          | 57.      |                    | _            |          | $\dashv$ |                |          | $\dashv$ | +        | -        |                 |  | 108      | -        | Н            | $\vdash$     |          | $\dashv$ | -  | $\dashv$       | -             | _             |
|            | 8        | <u> </u>      |          |  |              |  |   |              |  |              | 1.11            |          | 58       |                    |              |          | _        |                | -        | -        | +        | -        |                 |  | 109      | -        | $\vdash$     | $\vdash$     | -        | -1       | -  | $\dashv$       | $\dashv$      | _             |
|            | 9        | V             |          |  |              |  |   |              |  | Ш            |                 |          | _59      |                    | _            | -        |          |                |          |          | +        |          |                 |  | 110      | -        | H            | Н            | $\dashv$ | $\dashv$ |  | $\dashv$       |               | _             |
|            | 10       | 1             |          |  |              |  |   | _            |  |              |                 |          | 60       | L.                 | _            |          |          |                |          | -        | -        | -        |                 |  |          |          |              | $\vdash$     | $\vdash$ | $\dashv$ | ٠.,  |                | $\dashv$      | _             |
|            | 11       | $\prod$       |          |  |              |  | Li  |              |  |              |                 |          | 61       | <u> </u>           |              | $\vdash$ |          | Ш              | -        | -        |          |          |                 |  | 111      | -        | ⊢            | $\vdash$     | $\vdash$ |          |  | $\dashv$       | $\dashv$      | _             |
| <u></u>    | 12       | 11            |          | _  | <u> </u>     | <u> </u>                                     |   | <u>.</u>     |  | Ш            | 40              |          | .62      |                    |              | $\vdash$ |          | $\vdash\dashv$ | -        | $\dashv$ |          | -        |                 | -  | 113      | -        | -            | $\vdash$     | Н        | $\vdash$ | Н  | $\dashv$       |               | _             |
|            | (13      | 1             | <u> </u> |  |              | L  |   |              |  | Ш            |                 | <u> </u> | 63       | 1-                 |              |          |          |                |          | $\dashv$ | +        | _        |                 |  | 113      | -        | -            | H            | $\vdash$ | $\vdash$ |  | -1             | $\dashv$      | -             |
|            | 150      | 1.            | 1_       |  | L.           | _  | <u> </u>                                      | -            |  | Ш            |                 | <u> </u> | 64       | -                  | -:-          | -        | 1        | -              |          | -        | -        | _        |                 |  | 115      | -        | ╁╌           | H            | Н        |          | -  | $\vdash$       | - 1           | 1             |
|            | 15       | 1             | 1_       | _  | _            |  | L.  |              |  |              |                 | <u> </u> | 65       | _                  | ┝╌           |          |          | $\vdash$       |          |          | -        |          | 12 (m)<br>1 (m) | ⊢—   | 116      | 1        | <del> </del> | -            |          | $\vdash$ |  | -              | -             | _             |
|            | 16       | 1             | _        |  |              | L  | _   |              | <u>.                                    </u> |              |                 | <u> </u> | .66      | <u> </u>           | ÷            | وبنيا    |          | Ш              | $\vdash$ | -        | -        | _        |                 | -  | 117      | ŀ        | $\vdash$     | -            | -        | H        |  | $\vdash$       | -             | $\overline{}$ |
|            | 17       | 11.           | Ŀ        |  | L            | L  |   |              |  |              | :::::           | ·        | 67       | <b>├</b>           |              | -        | -        | H              | $\vdash$ |          |          | _        |                 | -  | 118      | ┝        | ⊢            | -            | Н        | Н        | H  |                | -             | $\vdash$      |
| <u> </u>   | .18      | 1             | <u> </u> | <u> </u>                                     |              | <u>.                                    </u> | _   | Ш            | <u></u>                                      | _            |                 | <u> </u> | 68       | -                  | ├            | H        |          | -              | $\vdash$ | -1       | +        |          |                 | <u> </u>   | 119      | -        | ŀ            | $\vdash$     | $\vdash$ | H        | ├  | H              | Н             | $\vdash$      |
|            | .19      | V             | 1_       | _  | -            | ٠٠٠  | <u>                                      </u> |              | <u>.                                    </u> |              |                 |          | 69       | ╀                  |              | -        | -        | -              | ├-┤      |          |          | _        |                 |  | 120      | 1-       | +            | -            | -        | Н        | <del> </del>                                     | <del>   </del> | -             | Г             |
|            | 28       | 1             | ل        | Ŀ  |              | <u> </u>                                     | _   | _            | <u> </u>                                     |              |                 |          | 70       | ŀ۰                 | -            | -        | -        |                | Н        | $\dashv$ | -        | _        |                 | -  | 121      | +-       | ⊢            | H            | -        | Н        | -  | $\vdash$       | М             | Г             |
|            | 21       | V.            | _        | <u>.                                    </u> | <u> </u>     | ┺  | -   |              | ļ.,  |              |                 |          | 71       | ⊨                  | -            | -        |          | -              |          |          |          | -        |                 | -  | 122      | ┢        | +            | <del> </del> | H        | -        | -  | $\vdash$       | М             | Г             |
|            | 22       | ļ.,           | 1_       | ┞  | <u> </u>     | ļ  | -   |              | Ŀ  | -            | . ::<br>. : : : |          | 72<br>73 | <del> </del>       | ٠.           | -        | -        | ŀ٠             | $\vdash$ |          | $\dashv$ |          | \               |  | 123      | 1        | 十            | $\vdash$     |          | 一        | -  | $\vdash$       | _             | Г             |
| L          | 23       | ļ.            | <u> </u> | Ŀ  | <u> </u>     | 1  |   |              | _  | _            |                 |          |          | ŀ                  |              |          | <u> </u> | ⊢              | H        |          | -        |          | 1               | -  | 124      | ╁        | $\vdash$     | $^{+}$       | -        | <u> </u> | H  |                | М             | Г             |
|            | 24       | -             | -        | -  | -            | -  | -   |              | <u> </u>                                     |              |                 |          | 74<br>75 | ⊬                  | ⊢            | -        | -        | ├─             | -        | $\dashv$ | $\dashv$ | _        |                 | <del>                                     </del> | 125      | +-       | ┢            | 一            | -        | <b>†</b> | <del>                                     </del> |                | T             | Г             |
|            | 25       | 1             | -        | -  | <del> </del> | <u> </u>                                     |   | -            | <del> </del>                                 | -            | : :::<br>:::    | <u> </u> | 76       | ╨                  | -            | H        | ╁        | ┢              |          | -        | -        |          |                 |  | 126      | 1        | t            | t            | -        | ļ-       |  | П              |               | 广             |
| L          | 26       |               | ╄        | 1  |              | -  | -   |              |  |              | :::             |          | 77       | ╀╌                 | -            | -        | 1-       | -              | $\vdash$ |          | $\dashv$ |          | ( )             | -  | 127      | 十        | +            | <b>†</b>     |          | $\vdash$ | 1  | Н              | Г             | r             |
| <u> </u>   | 27       |               | ╀        | -  | ├-           | ╁  | -   | <del> </del> | -  |              | 1               |          | 78       | ╁                  | H            | -        | -        | ┢╌             | Н        | $\neg$   | -        |          |                 |  | 128      | $\vdash$ | Ħ            | <del> </del> | Ť        |          | $\vdash$   | Н              |               | Ι.            |
| <u> </u>   | 28       |               | ŀ        |  | <del> </del> |  | -   | -            | ┝  |              |                 | -        | 79       | ╁                  | +            | ╌        | $\vdash$ | ,              | Н        | -        |          | ÷        |                 | $\vdash$   | 129      |          | † <u> </u>   |              | Г        | $\vdash$ | <u> </u>   | П              | $\overline{}$ | Γ             |
|            | 29       |               | -        | <b>↓</b> _                                   | -            | <del></del>                                  | 1:  | <u> </u>     | <u>-</u> -                                   | -            |                 | <u> </u> | 80       | ╀                  | -            |          | -        | ÷              | Н        |          | - +      |          |                 | <del> </del>                                     | 130      |          | +            | 1            | ┰        | -        | 1  | П              |               | Г             |
| ļ          | 30       |               | +-       | ļ  | -            | ╀  | -   |              |  | -            |                 | -        | 81       | ┢                  | H            | $\vdash$ | -        | +-             | Н        |          |          |          |                 |  | 131      | 1        | $\vdash$     | $\top$       | T        |          |  | $\Box$         | Г             | Г             |
|            | 31       | +             | +-       | 1  | <u> </u>     | ╄  | -   | ├-           | ┢  | <del> </del> | 1               | -        | 82       | ╁                  | 1            | 1        | 1-       | <u> </u>       | Н        | _        |          | -        |                 | $\vdash$   | 132      |          | $\top$       | 1            |          | П        | Τ  | Г              | Г             | Γ             |
| <u> </u>   | 32       |               | ┼-       | ╀  | -            | +-   | +-  |              |  | -            |                 | -        | 83       | +                  | <del> </del> | H        | H        | 十              |          |          |          |          |                 | H  | 133      |          | T            | T            |          | Ī.       | T  | Г              |               | Γ             |
| -          | 33       |               | +        | +-   | 1-           | +-   | +   | <del> </del> | +  | +            | 1::             | -        | 84       | $\vdash$           | t            | 1        | 1        | 1              | Н        | _        |          | _        | 1               | Г  | 134      |          | Т            | T            | П        |          |  | $\Box$         |               | ſ             |
|            | 34       |               | -        | ╁╴   | +            | +-   | $\vdash$                                      | +            | H  | -            | 1               | -        | 85       | 1                  | 1            | 1        | 1        | Ť              |          | _        |          |          | 1.              | Г  | 135      | Т        | Г            | T            |          |          |  |                |               | L             |
|            | 36       |               | +        | +  | +-           | +  | +-  | +            | 1  | +            |                 | <b>!</b> | 86       | 1                  | +            | 1        | 1        | 1              |          |          |          |          | 1::             |  | 136      |          | $\Gamma$     |              |          | L        |  |                |               | Ĺ             |
| -          | 37       |               | ┢        | +  | $\vdash$     | +  | ╁   | +            | t  | +            | 1               |          | 87       | 1                  | 1.           | 1        | 1        | Т              | 1        |          | . 1      |          | 1               |  | 137      |          |              |              |          |          |  | L              | L             | L             |
| $\vdash$   | 38       |               | +-       | +-   | ╀            | +-   | +-  | 1-           | 十  | +            |                 | -        | 88       | T                  | İ.           | Т        | 1        | 1              |          |          |          | _        | 1               |  | 138      |          | I            |              |          |          |  | L              | L             | L             |
| -          | 39       |               | +        | +-   | +            | +-   | 十   | 1            | $\vdash$                                     | 1            | 1               |          | 89       | Т                  | ľ            |          | 1        |                |          | , .      |          |          | 1               |  | 139      |          | L            | L            | $\perp$  | $\perp$  | L  | $\perp$        | L             | L             |
| ÷          | 40       |               | +        | +  | $\vdash$     | +  | 1-  | +            | †  | +-           | 1               | -        | 90       | T                  | Τ.           | T        | 1        | 1              | T        | -        | П        |          | 7               |  | 140      |          | L            |              | L        | L        | 上  | $\perp$        | <u> </u>      | L             |
| -          | 41       |               | +-       | +-   | +            | +  | 1   | $\vdash$     | 1  | $\top$       | 1               |          | 91       | +                  | +            | 1        | 忙        |                | Τ        |          |          |          | ]               |  | 141      |          | $\perp$      | L            | $\perp$  | 1        |  | 1_             | 1_            | L             |
| -          | 42       | $\rightarrow$ | ╁        | +  | +-           | +  | +   | t            | T  | 1-           | 1               |          | 92       | T                  | Г            | T        |          | 1              | Π        |          |          |          | ]               |  | 142      |          | $\perp$      | $\perp$      | L        | ـــ      | _  | $\perp$        | $\perp$       | 1             |
| $\vdash$   | 43       |               | +        | 1-   | †            | $\top$                                       | 1   | 1            | T  | 1            | 1               |          | 93       | _                  | T            | Г        | Т        |                | L        |          |          |          | ]               |  | 143      |          | 1            | 1_           | 上        | $\perp$  | 1  | ╀-             | $\vdash$      | 1             |
| <u> </u>   | 44       |               | T        | +  | 1-           | 1  | $\top$  | T            | 1  | T            | 1               |          | . 94     |                    | 7            |          |          |                |          |          |          |          |                 | _  | 144      |          | $\perp$      | ╄-           | ╄-       | ╀        | 1  | 1_             | 1             | ╀             |
| $\vdash$   | 45       |               | +        | +  | +            | 1  | -   | 1            | 1  | $\top$       | 1::             |          | 95       | Γ                  | Γ            |          | Ι        | Γ              |          |          |          |          | ]               | L  | 145      |          | 1            | 4_           | 1        | 4        | $\perp$  | 1              | ↓_            | +             |
| -          | 46       |               | +        | 1-   | 十            | 1  | 1   | 1            | 1  | Ť            |                 |          | 96       | Ι                  | Ι            | $\Gamma$ | I        |                |          |          |          | _        |                 | 1  | 146      |          | 4            | $\perp$      | 4        | $\perp$  | $\perp$  | +              | 4             | 1             |
| -          | 47       |               | +        | T  | Τ            | 1  | 1   | 1            | Τ  | T            |                 |          | 97       | $oxed{\mathbb{I}}$ |              |          |          |                |          |          |          | _        |                 | 1  | 147      |          | +            | +            | +        | +-       | 1-   | +              | +             | +             |
| 1          | 48       |               |          | $\top$                                       | T            | 1  | 1   | T            | Τ  |              | ]::             |          | 98       |                    | L            |          |          |                | 1        | _        | _        | _        |                 | -  | 148      |          | 1            | 4            | 4-       | +        | 1-   | +              | +             | +             |
|            | 49       |               | 1        |  | Ι            | I  | L   |              | I  |              |                 |          | 99       |                    |              |          | L        | $\perp$        | 1_       | L_       | <u> </u> | L        | 4               | 1-   | 149      |          | +            | +            | +        | +-       | +-   | +              | +             | +             |
| 1          | . 50     |               | T        | T  |              | $\Gamma$                                     |   | L            | L  |              | ]:              |          | 100      |                    | L            | L        | _        | 丄              | L        | <u> </u> | L        | L_       |                 | -  | 150      | 1        |              |              |          | 1_       |  |                | ⊥_            |               |